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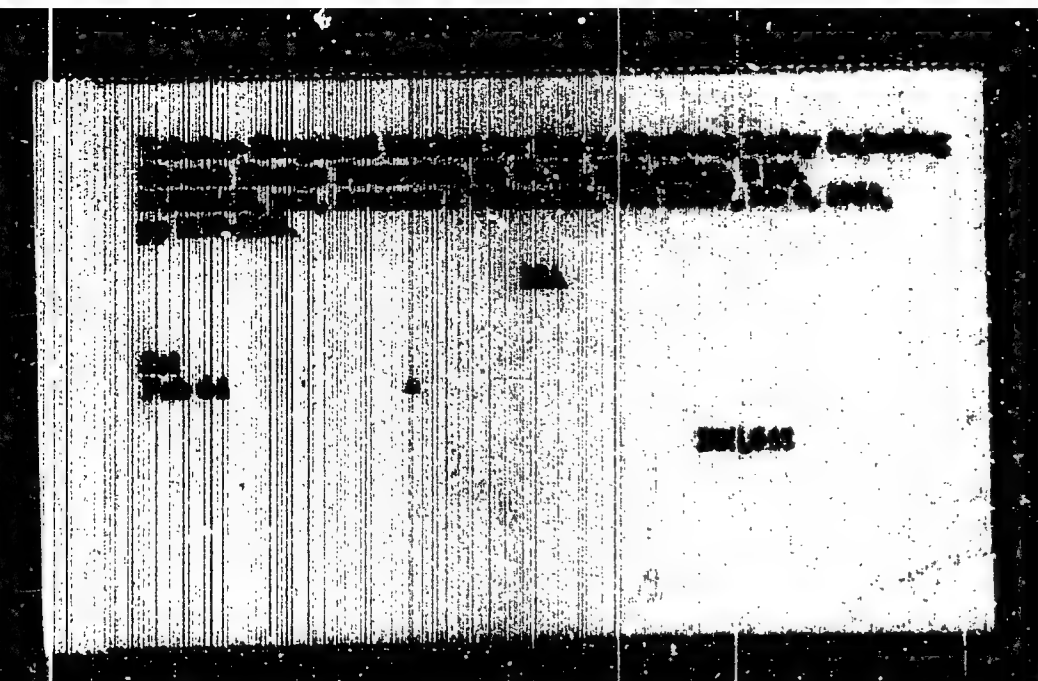
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DESCRIPTORS: *Polyethylene plastics, Manufacturing
methods, *Propenes, Polymerization, Metalorganic
compounds, *Ziegler catalysts, *Aluminum compounds,
Ethyl radicals, Titanium compounds, Oxidation com-
pounds, Zinc compounds, Halides

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DESCRIPTORS: *Rubber, *Abrasion, *Test methods.

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Mechanism of Coagulation, by A. Nakai,
13 pp.

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THE COURSE OF FIBER FORMATION FROM VIS-
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Trans. of Sen-i Gakkaishi (Japan) 1959, v. 15, no. 9,
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DESCRIPTORS: *Synthetic fibers, Production, *Cellu-
lose, Processing, Coagulation, Fibers.

Cross-sectional sections of filaments which had been
spun out into several types of coagulation baths were
observed under polarized light, and their cross-
sectional orientative property was sought. From in-
formation thus obtained, we have explained the com-
pressive orientation effect and stretching orientation
effect which accompany contraction in the course of
viscose fiber formation, in their relationship with the
coagulation mechanism. We have explained the mecha-
(Materials--Textiles, TT, v. 6, no. 5) (over)

61-16580

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STUDIES ON MODEL CELLULOSE GELS COAGU-
LATE, BY TWO-BATH TREATMENT FROM VIS-
COSE. Rept. no. 1 of Coagulation Effect on Structures
of Regenerated Cellulose. [1961] [21]p. 15 refs.
Order from SLA \$2.60 61-16581

I. Nakai, A.
II. Title: Coagulation...

Trans. of Sen-i Gakkaishi (Japan) 1959, v. 15, no. 2,
p. 90-94.

DESCRIPTORS: *Cellulose, *Gels, Analysis, *Cellu-
lose chemistry, Coagulation.

The present examination refers to cellulose gels co-
agulated freely by the procedure by which the formation
process is broken up into individual phases: (1) gelatin-
ation of viscoses, and (2) regeneration of this xanthate
gel to cellulose itself. Fine structures of both fresh
and dry gels, such as equilibrium absorption of dye,
accessibility and lateral-order distribution, were in-
vestigated with regard to various conditions of Na_2SO_4
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DESCRIPTORS: *Cellulose, *Gels, Analysis, Physical properties, *Cellulose chemistry, Coagulation, Filaments, Fibers, Regeneration.

The physical properties and behaviours of the isotropic xanthate filaments during their gelatination, conversion to cellulose, and drying, were studied in relation to the means by which coagulation is brought about (coagulant, temperature, degree of ripeness of viscose). The following are examined: shrinkage behaviours during each process, diffusion rate of regenerating solution. (Materials--Textiles, TT, v. 6, no. 5) (over)

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1. Title: Gelatination

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ON DETERMINING THE CRYSTALLINITY OF CELLULOSE FIBERS ON WHICH COHESIVE STRUCTURES ARE NOT SET IN STABLE STATE. [1961] [9]p.

6 refs.

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Trans. of [Sen-i Gakkaishi] (Japan) 1959, v. 15, no. 1, p. 13-14

DESCRIPTORS: *Cellulose, *Rayon fibers, Crystallization, Hydrolysis.

By measuring the crystallinity of several viscose rayon fibers whose stability of cohesive structure varies radically by the acid hydrolysis method and iodine absorption method the feasibility of this method was established. During acid hydrolysis the recrystallization of the fibres depended greatly on the stability of the cohesive structure.

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Nakai, Akiyoshi and Yoshikawa, Seibei.

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PROPYLENE FIBERS. Rpt. 1 of Study on Heat-Treat-
ment of Polypropylene Fibers. Oct 62, 11p. (figs.
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- I. Nakai, A.
- II. Yoshikawa, S.
- III. Title: Study ...
- IV. SA Code-S265
- V. Seizaburo Aoki (Japan)

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p. 997-1001.DESCRIPTORS: "Synthetic fibers, "Propenes, Polymers,
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